QC-ABSTRACT

Name of Work:- Renovation and additional construction of RR nagar constituency MLA office, BBMP RR Nagar Division Executive engineer and Yeshwanthapura Sub Division Assistant Executive engineer office behind Chowdeshwari Bus stop, J.P Park and construction of compound wall in front of J .P Park in Ward no.17, BBMP, Bangalore.

Sl No.	Item	Quantity As Per BOQ	Required No's of tests	Actual No's of tests	Tests
1	PCC 1:3:6	152.35 Cum	1	1	Cement
					Sand, Aggregates
2	Brick	-	1	1	Compressive Strength
3	Steel	0.83 Tonne	1	1	-
4	M15	55.77 Cum	5	5	Concrete Cube Compressive Strength
5	M25	33.68 Cum	4	4	Concrete Cube Compressive Strength
6	CC Block 4"	118.32 Sqm	1	1	Concrete Cube Compressive Strength
7	WMM	305.59 Cum			-
	Gradation		2	2	
	Aggregate Imoact Value		1	1	
	Shape test		1	1	
	Atterberg Limit		2	2	

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Cubes

0-5 m^3	1set
6-15 m^3	2set
16-30 m^3	3set
31-50 m^3	4 set

Add 1set for every 50 Cum

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Job No.: CQCE/BBMP/MLR/17/2019-20

Date: 23.02.2020

TEST REPORT ON CEMENT

Client : **Executive Engineer,** Project Division, RR Nagara Zone Division, BBMP, Bangalore.

Agency : **Sri. M Lakshmana Raju,** Contractor, Bangalore.

Name of Work : Renovation and additional construction of RR nagar constituency MLA office, BBMP RR Nagar Division Executive engineer and Yeshwanthapura Sub Division Assistant Executive engineer office behind Chowdeshwari Bus stop, J.P Park and construction of compound wall in front of J .P Park in Ward no.17, BBMP, Bangalore.

Sample ID: : Cement (Ultra Tech 53 grade OPC)

Sample Supplied by: : AGENCY

Date of Manufacture: : January - 2020

Date of Testing : 21.02.2020 to 23.02.2020

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	a) Initial Setting Time	IS-4031 (Part - 5):1988(RA 2014)	130 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part - 5):1988(RA 2014)	385 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.00%	-

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AE/JE(R).R.R.N

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Job No.: CQCE/BBMP/MLR/17/2019-20

Date: 23.02.2020

TEST REPORT ON CEMENT

Client : **Executive Engineer,** Project Division, RR Nagara Zone Division, BBMP, Bangalore.

Agency : **Sri. M Lakshmana Raju,** Contractor, Bangalore.

Name of Work : Renovation and additional construction of RR nagar constituency MLA office, BBMP RR Nagar Division Executive engineer and Yeshwanthapura Sub Division Assistant Executive engineer office behind Chowdeshwari Bus stop, J.P Park and construction of compound wall in front of J .P Park in Ward no.17, BBMP, Bangalore.

Sample ID: : Cement (Ultra Tech 53 grade OPC)

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1	a) Initial Setting Time	IS-4031 (Part - 5):1988(RA 2014)	130 Minutes	Not Less than 30 Minutes
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2	Soundness	IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.00%	

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AE/JE(R):R.R.N

Authorised Signatory

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Job No.: CQCE/BBMP/MLR/17/2019-20 Date : 23.02.2020

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Executive Engineer,** Project Division, RR Nagara Zone Division, BBMP, Bangalore.

Agency : **Sri. M Lakshmana Raju,** Contractor, Bangalore.

Name of Work : Renovation and additional construction of RR nagar constituency MLA office, BBMP RR Nagar Division Executive engineer and Yeshwanthapura Sub Division Assistant Executive engineer office behind Chowdeshwari Bus stop, J.P Park and construction of compound wall in front of J .P Park in Ward no.17, BBMP, Bangalore.

Date of Testing : 23.02.2020

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : Sand

Total Wt. of Aggregates in gms 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016 Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	86	8.60	8.60	91.4	90-100
2.36	104	10.40	19.00	81.0	75-100
1.18	185	18.50	37.50	62.5	55-90
600 Micron	235	23.50	61.00	39.0	35-59
300 Micron	172	17.20	78.20	21.8	8-30
150 Micron	154	15.40	93.60	6.4	0-10

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Job No: CQCE/BBMP/MLR/17/2019-20 Date : 23.02.2020

TEST REPORT ON COARSE AGGREGATES

Client : **Executive Engineer,** Project Division, RR Nagara Zone Division, BBMP, Bangalore.

Agency : **Sri. M Lakshmana Raju,** Contractor, Bangalore.

Name of Work : Renovation and additional construction of RR nagar constituency MLA office, BBMP RR Nagar Division Executive engineer and Yeshwanthapura Sub Division Assistant Executive engineer office behind Chowdeshwari Bus stop, J.P Park and construction of compound wall in front of J .P Park in Ward no.17, BBMP, Bangalore.

Date of Testing : 23.02.2020

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms 15000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
80	0	0	0	100	100
40	216	1.44	1.44	98.56	95-100
20	8442	56.28	57.72	42.28	30-70
10	3154	21.03	78.75	21.25	10-35
4.75	2564	17.09	95.84	4.16	0-5

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Job No.: CQCE/BBMP/MLR/17/2019-20 Date : 23.02.2020

TEST REPORT ON COARSE AGGREGATES

Client : **Executive Engineer,** Project Division, RR Nagara Zone Division, BBMP, Bangalore.

Agency : **Sri. M Lakshmana Raju,** Contractor, Bangalore.

Name of Work : Renovation and additional construction of RR nagar constituency MLA office, BBMP RR Nagar Division Executive engineer and Yeshwanthapura Sub Division Assistant Executive engineer office behind Chowdeshwari Bus stop, J.P Park and construction of compound wall in front of J .P Park in Ward no.17, BBMP, Bangalore.

Date of Testing : 23.02.2020

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= 5000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
40	0	0	0	100	100
20	242	4.8	4.8	95.2	95-100
10	2854	57.1	61.9	38.1	25-55
4.75	1742	34.8	96.8	3.2	0-10

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Job No.: CQCE/BBMP/MLR/17/2019-20 Date : 12.06.2020

TEST REPORT ON FINE AGGREGATES (SAND)
IS 1542-1992

Client : **Executive Engineer,** Project Division, RR Nagara Zone Division, BBMP, Bangalore.

Agency : **Sri. M Lakshmana Raju,** Contractor, Bangalore.

Name of Work : Renovation and additional construction of RR nagar constituency MLA office, BBMP RR Nagar Division Executive engineer and Yeshwanthapura Sub Division Assistant Executive engineer office behind Chowdeshwari Bus stop, J.P Park and construction of compound wall in front of J .P Park in Ward no.17, BBMP, Bangalore.

Date of Testing : 12.06.2020

Material : Sand(Plastering) Total wt. of aggregates in gms = 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 1542-1992
10	0	0	0	100	100
4.75	16	1.60	1.60	98.4	95-100
2.36	18	1.80	3.40	96.6	95-100
1.18	37	3.70	7.10	92.9	90-100
600 Micron	72	7.20	14.30	85.7	80-100
300 Micron	253	25.30	39.60	60.4	20-65
150 Micron	516	51.60	91.20	8.8	0-15

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R.R.N

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Job No.: CQCE/BBMP/MLR/17/2019-20 Date : 30.02.2020

TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client	: **Executive Engineer,** Project Division, RR Nagara Zone Division, BBMP, Bangalore.
Agency	: **Sri. M Lakshmana Raju,** Contractor, Bangalore.
Name of Work	: Renovation and additional construction of RR nagar constituency MLA office, BBMP RR Nagar Division Executive engineer and Yeshwanthapura Sub Division Assistant Executive engineer office behind Chowdeshwari Bus stop, J.P Park and construction of compound wall in front of J .P Park in Ward no.17, BBMP, Bangalore.
Steel Dia/Length	: 8mm,12mm," TMT"
Reference to BIS codes	: IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification
	: IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature
Date of test	: 30.02.2020

S.No	Brand	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH			
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation, percent on gauge length
1	TMT	8	0.395	506	608	1.20	16
2	TMT	12	0.888	529	614	1.16	18

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Job No.: CQCE/BBMP/MLR/17/2019-20 Date: 12.05.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** Project Division, RR Nagara Zone Division, BBMP, Bangalore.

Agency : **Sri. M Lakshmana Raju,** Contractor, Bangalore.

Name of the work : Renovation and additional construction of RR nagar constituency MLA office, BBMP RR Nagar Division Executive engineer and Yeshwanthapura Sub Division Assistant Executive engineer office behind Chowdeshwari Bus stop, J.P Park and construction of compound wall in front of J .P Park in Ward no.17, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.05.2020	12.05.2020	8.126	248.5	11.04
2	05.05.2020	12.05.2020	8.054	256.3	11.39
3	05.05.2020	12.05.2020	8.128	261.4	11.62

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Job No.: CQCE/BBMP/MLR/17/2019-20 Date: 14.05.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** Project Division, RR Nagara Zone Division, BBMP, Bangalore.
Agency	: **Sri. M Lakshmana Raju,** Contractor, Bangalore.
Name of the work	: Renovation and additional construction of RR nagar constituency MLA office, BBMP RR Nagar Division Executive engineer and Yeshwanthapura Sub Division Assistant Executive engineer office behind Chowdeshwari Bus stop, J.P Park and construction of compound wall in front of J .P Park in Ward no.17, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.05.2020	14.05.2020	8.001	245.6	10.92
2	07.05.2020	14.05.2020	8.157	259.1	11.52
3	07.05.2020	14.05.2020	8.129	268.7	11.94

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

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Job No.: CQCE/BBMP/MLR/17/2019-20 Date: 26.05.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** Project Division, RR Nagara Zone Division, BBMP, Bangalore.

Agency : **Sri. M Lakshmana Raju,** Contractor, Bangalore.

Name of the work : Renovation and additional construction of RR nagar constituency MLA office, BBMP RR Nagar Division Executive engineer and Yeshwanthapura Sub Division Assistant Executive engineer office behind Chowdeshwari Bus stop, J.P Park and construction of compound wall in front of J .P Park in Ward no.17, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.05.2020	26.05.2020	8.117	251.6	11.18
2	19.05.2020	26.05.2020	8.169	259.4	11.53
3	19.05.2020	26.05.2020	8.009	268.3	11.92

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Job No.: CQCE/BBMP/MLR/17/2019-20 Date: 01.06.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** Project Division, RR Nagara Zone Division, BBMP, Bangalore.
Agency	: **Sri. M Lakshmana Raju,** Contractor, Bangalore.
Name of the work	: Renovation and additional construction of RR nagar constituency MLA office, BBMP RR Nagar Division Executive engineer and Yeshwanthapura Sub Division Assistant Executive engineer office behind Chowdeshwari Bus stop, J.P Park and construction of compound wall in front of J .P Park in Ward no.17, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.05.2020	01.06.2020	8.070	250.6	11.14
2	25.05.2020	01.06.2020	8.165	256.8	11.41
3	25.05.2020	01.06.2020	8.149	263.7	11.72

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

AE/JE (P) R.R.N

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ಆರ್. ಆರ್. ನಗರ ಯೋಜನೆ ಉಪ-ವಿಭಾಗ-01
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

Authorised Signatory

Office & Laboratory : # 133, Bhuvaneshwarinagar, Dodda Basti Main Road, Bangalore - 560 056.
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JAS-ANZ
ISO 9001:2000 CERTIFIED

Job No.: CQCE/BBMP/MLR/17/2019-20 Date: 11.06.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** Project Division, RR Nagara Zone Division, BBMP, Bangalore.
	: **Sri. M Lakshmana Raju,** Contractor, Bangalore.
Agency	
Name of the work	: Renovation and additional construction of RR nagar constituency MLA office, BBMP RR Nagar Division Executive engineer and Yeshwanthapura Sub Division Assistant Executive engineer office behind Chowdeshwari Bus stop, J.P Park and construction of compound wall in front of J .P Park in Ward no.17, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	04.06.2020	11.06.2020	8.108	253.6	11.27
2	04.06.2020	11.06.2020	8.161	261.2	11.61
3	04.06.2020	11.06.2020	8.097	269.9	12.00

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Job No.: CQCE/BBMP/MLR/17/2019-20 Date: 02.06.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** Project Division, RR Nagara Zone Division, BBMP, Bangalore.
Agency	: **Sri. M Lakshmana Raju,** Contractor, Bangalore.
Name of the work	: Renovation and additional construction of RR nagar constituency MLA office, BBMP RR Nagar Division Executive engineer and Yeshwanthapura Sub Division Assistant Executive engineer office behind Chowdeshwari Bus stop, J.P Park and construction of compound wall in front of J .P Park in Ward no.17, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.05.2020	02.06.2020	8.147	356.4	15.84
2	05.05.2020	02.06.2020	8.159	369.8	16.44
3	05.05.2020	02.06.2020	8.035	375.6	16.69

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Job No.: CQCE/BBMP/MLR/17/2019-20 Date: 04.06.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** Project Division, RR Nagara Zone Division, BBMP, Bangalore.
	: **Sri. M Lakshmana Raju,** Contractor, Bangalore.
Agency	
Name of the work	: Renovation and additional construction of RR nagar constituency MLA office, BBMP RR Nagar Division Executive engineer and Yeshwanthapura Sub Division Assistant Executive engineer office behind Chowdeshwari Bus stop, J.P Park and construction of compound wall in front of J .P Park in Ward no.17, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.05.2020	04.06.2020	8.005	361.2	16.05
2	07.05.2020	04.06.2020	8.161	369.4	16.42
3	07.05.2020	04.06.2020	8.027	375.2	16.68

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Job No.: CQCE/BBMP/MLR/17/2019-20 Date: 16.06.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** Project Division, RR Nagara Zone Division, BBMP, Bangalore.
Agency	: **Sri. M Lakshmana Raju,** Contractor, Bangalore.
Name of the work	: Renovation and additional construction of RR nagar constituency MLA office, BBMP RR Nagar Division Executive engineer and Yeshwanthapura Sub Division Assistant Executive engineer office behind Chowdeshwari Bus stop, J.P Park and construction of compound wall in front of J .P Park in Ward no.17, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.05.2020	16.06.2020	8.170	363.4	16.15
2	19.05.2020	16.06.2020	8.194	368.7	16.39
3	19.05.2020	16.06.2020	8.189	371.4	16.51

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Job No: CQCE/BBMP/MLR/17/2019-20 Date: 22.06.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** Project Division, RR Nagara Zone Division, BBMP, Bangalore.
	: **Sri. M Lakshmana Raju,** Contractor, Bangalore.
Agency	
Name of the work	: Renovation and additional construction of RR nagar constituency MLA office, BBMP RR Nagar Division Executive engineer and Yeshwanthapura Sub Division Assistant Executive engineer office behind Chowdeshwari Bus stop, J.P Park and construction of compound wall in front of J .P Park in Ward no.17, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.05.2020	22.06.2020	8.008	352.4	15.66
2	25.05.2020	22.06.2020	8.104	362.6	16.12
3	25.05.2020	22.06.2020	8.117	377.1	16.76

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B.K Rukhtan
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Job No.: CQCE/BBMP/MLR/17/2019-20 Date: 02.07.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** Project Division, RR Nagara Zone Division, BBMP, Bangalore.
	: **Sri. M Lakshmana Raju,** Contractor, Bangalore.
Agency	: Renovation and additional construction of RR nagar constituency MLA office, BBMP RR Nagar Division Executive engineer and Yeshwanthapura Sub Division Assistant Executive engineer office behind Chowdeshwari Bus stop, J.P Park and construction of compound wall in front of J .P Park in Ward no.17, BBMP, Bangalore.
Name of the work	
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm²)
1	04.06.2020	02.07.2020	8.116	355.2	15.79
2	04.06.2020	02.07.2020	8.171	366.4	16.28
3	04.06.2020	02.07.2020	8.191	374.8	16.66

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